



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D3631-1**Job Sheet 195474****Part No:** D3631-1**Job Qty:** 500 pcs**Part Name:** Washer**Part Weight:** 0 lbs**Status:** New**Priority:** Medium**Job Created:** 5/23/19**Job Tracking No:****Due Date:** 6/14/19**Created By:** Marie Lajeunesse**Type:** Stock**Description:****Note:** DWG REV A IPP Rev:A New Issue 07-07-28 JLM Verified By:EC**Ship Via:****Bill of Materials****Job Routing**

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	500 pcs	6/14/19	6/14/19	0.00	0.00	Purchasing - 1		
							Purchasing - 2		
							Purchasing - 3		
110	Packaging 2-1 - Receive - B4B	500 pcs	6/14/19	6/14/19	0.00	0.00	Packaging 2 - 1 - B4B		
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		
							Packaging 2 - 20 -		

**Container No:** S184192**Part:** D3631-1**Job No:** 195474**Serial No/Batch:** S184192**Revision:****Inspector:****Exp Date:****Instructions:** Various STC's

Date: 05/27/19

1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

					B4B	
					Packaging 2 - 21 - B4B	
					Packaging 2 - 22 - B4B	
					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	
					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
120	QC 6	500 pcs	6/14/19	0.00 0.00	QC 6 - 9	DAS
					QC 6 - 68	JUN 10 2019 68
					QC 6 - 61	9-89
					QC 6 - 40	
130	Packaging 3-1 - Stock - B4B	500 pcs	6/14/19	0.00 0.00	Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	85819-06-10
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
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					Packaging 3 - 18 - B4B	

					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
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					Packaging 3 - 24 - B4B	
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					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
140 QC 21 - SA					QC 21 - SA - 21	DAS
					QC 21 - SA - 70	21 JUN 1 11 2019
					QC 21 - SA - 53	9-55

Part Op **100** - (Purchasing) Issue P/O: _____ Purchase Part Number: 95606A170
 Descriptions: **110** - (Receive & Inspect for Damage & Mat'l Certs) Ensure certificate of conformity is attached
120 - (QC6- All purchased or subcontracted products)
130 - (Identify as per dwg & Stock Location: FP001) LOCATION : FP001 500
140 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
95606A170	Washer D3631-1	500 Ea (1 ea)	100-Purchasing	5184/88

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	95606A170	500	100	0

Part Specifications

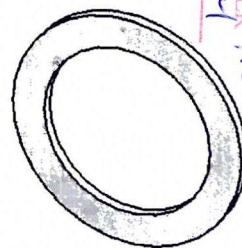
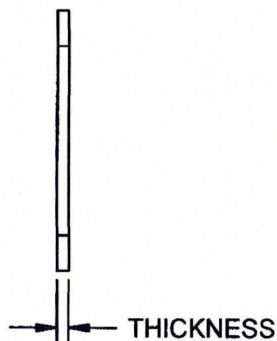
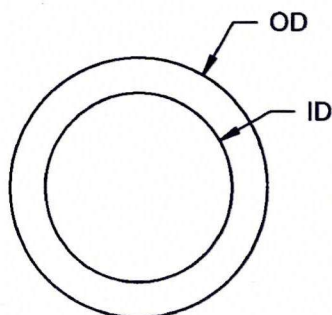
Specifications could not be found.

Plex 5/23/19 11:57 AM dart.lavoie.chantal



DESIGN CB	DRAWN BY CB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED PH	APPROVED [Signature]	DRAWING NO. D3631	REV. A SHEET 1 OF 1
DATE 07.05.16		TITLE WASHER	SCALE NTS
REV A	DATE 07.05.16	DESCRIPTION NEW ISSUE	

SPECIFICATION CONTROL DRAWING



SHOP COPY
RETURN TO
ENGINEERING
CONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER NO. 195474
190523

D3631-X WASHER

RELEASED
07.08.02 [Signature]

PART NUMBER	OD	ID	THICKNESS	MATERIAL	SUPPLIER
D3631-1	0.688	0.500	0.031	NYLON	McMASTER-CARR P/N: 95606A170

NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



Dart Aerospace Ltd.
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Hawkesbury, ON
K6A 1K7
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Tel (613) 632-5200

PURCHASE ORDER POHB043527



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

Attention: N/A,

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB043527

PO Date: 5/23/19

Due Date: 5/27/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

E-MAILED
2019-05-23

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		05045174	52725A31 1/PK	Mini Tatchet, 3-3/4"	Firmed X10	-	5/27/19	10 Ea	0 Ea	10 Ea	\$11.79/Ea	\$117.90
2		05045315	8526A65 1/PK	9/64" Hex Bit	Firmed X10	-	5/27/19	10 Ea	0 Ea	10 Ea	\$0.76/Ea	\$7.60
3		20NR-104	91257A749 10/PK	Rail Funnel Bolts	Firmed X10	-	5/27/19	10 pcs	0 pcs	10 pcs	\$1.469/pcs	\$14.69
4		20NR-112	91257A758 1/pk	Sideplate Protector Bolt	Firmed X10	-	5/27/19	10 Ea	0 Ea	10 Ea	\$3.00/Ea	\$30.00
5		20NR-13	92620A592 1/PK	Funnel Rail Bolt	Firmed X10	-	5/27/19	10 Ea	0 Ea	10 Ea	\$7.96/Ea	\$79.60
6		20NR-15	98029A033 25/pk	Plate Bushing	Firmed X25	-	5/27/19	25 Ea	0 Ea	25 Ea	\$0.376/Ea	\$9.40
7		20NR-28	91257A751 5/PK	Keeper Bolt	Firmed X5	-	5/27/19	5 Ea	0 Ea	5 Ea	\$1.934/Ea	\$9.67
8		20NR-69	90145A546	Light Release Pivot Shaft	Firmed X10	-	5/27/19	10 Ea	0 Ea	10 Ea	\$0.856/Ea	\$8.56
9		30125T403	1/pk	Turn Buckle Body	Firmed X4	-	5/27/19	4 pcs	0 pcs	4 pcs	\$2.15/pcs	\$8.60
10		3896T31	50/pk	Ferule 1/16 X 3/8" - Aluminum	Firmed X101	-	5/27/19	100 Ea	0 Ea	100 Ea	\$0.1312/Ea	\$13.12
11		90293A113	1/pk	Quick Release Pin 1/4" dia. , 1- 1/2" Length	Firmed X20	-	5/27/19	20 Ea	0 Ea	20 Ea	\$20.57/Ea	\$411.40



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PURCHASE ORDER

POHB043527



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
12		90905A673	10/pk	Split Ring, Ø1-1/16 OD x Ø15/16 ID x 1/8 receive ea	Firmed X10	-	5/27/19 MAY 27 2019	10 Ea	0 Ea	10 Ea	\$0.657/Ea DP	\$6.57
13		91611A104	200/pk Rec'd 199x	Roll Pin, Ø2mm X 10mm	Firmed X199	-	5/27/19 MAY 27 2019	200 Ea	0 Ea	200 Ea	\$0.0584/Ea DP	\$11.68
14		91611A170	100/pk	Roll Pin	Firmed X100	-	5/27/19 MAY 27 2019	100 Ea	0 Ea	100 Ea	\$0.0662/Ea DP	\$6.62
15		91732A726	10/pk	SS Helical Insert #10- 32 x 0.475" Lg.	Firmed X10	-	5/27/19 MAY 27 2019	10 Ea	0 Ea	10 Ea	\$0.518/Ea DP	\$5.18
16		92383A010	50/pk	Spring Pin SS 1/8" Dia. x 1-5/8" Lg.	Firmed X50	-	5/27/19 MAY 27 2019	50 Ea	0 Ea	50 Ea	\$0.1848/Ea DP	\$9.24
17		92383A700	100/pk	Spring Pin SS 1/8" Dia. x 1" Lg.	Firmed X100	-	5/27/19 MAY 27 2019	100 Ea	0 Ea	100 Ea	\$0.1216/Ea DP	\$12.16
18		9381T22	25/pk	S Hook Open End, Ø1/16 X 1	Firmed X25	-	5/27/19 MAY 27 2019	25 Ea	0 Ea	25 Ea	\$0.136/Ea DP	\$3.40
19	195480	97787A661		Expandable Pin Assembly D4711-043 receive pcs	Firmed X8	-	5/27/19 MAY 27 2019	8 pcs	0 pcs	8 pcs	\$114.68/pcs DP	\$917.44
20		98017A689	100/pk	Washer	Firmed X100	-	5/27/19 MAY 27 2019	100 Ea	0 Ea	100 Ea	\$0.0511/Ea DP	\$5.11
21		98957A710	1/pk	Grade B7 7/16"-14 Medium- Strength Steel Threaded Rod	Firmed	-	5/27/19	1 Ea	0 Ea	1 Ea	\$8.47/Ea	\$8.47
22		C45-18-7	3088A412 10/PK	Shim	Firmed X20	-	5/27/19 MAY 27 2019	20 Ea	0 Ea	20 Ea	\$0.385/Ea DP	\$7.70
23		91263A178	10/pk 25 ea	Steel Zinc Plated Hex Grive Flat Head Screw 1/4"-28 X 1- 1/4" Lg.	Firmed X50	-	5/27/19 MAY 27 2019	50 Ea	0 Ea	50 Ea	\$1.468/Ea x 0.4388 DP	\$73.40



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PURCHASE ORDER

POHB043527



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
24		8739K54	4 ft long	White Delrin Acetal Resin Bar, 1" Thick, 5" Wide, 4 Ft. Long	Firmed	-	5/27/19	4 ft	0 ft	4 ft	\$50.30/ft	\$201.20
25		6820A12	300ft	Clear Heat Shrink Tape 3/4" Wide	Firmed	-	5/27/19	300 ft	0 ft	300 ft	\$0.04473333/ft	\$13.42
26		3088A412	10/pk	Shim receive pcs	Firmed	-	5/27/19	10 pcs	0 pcs	10 pcs	\$0.385/pcs	\$3.85
27	195474	95606A170	95606A470 100/PK	Washer D3631-1 receive ea	Firmed	-	5/27/19	500 Ea	0 Ea	500 Ea	\$0.1161/Ea	\$58.05
28		3009A237	3" long	Pin	Firmed	-	5/27/19	12 ft	0 ft	12 ft	\$0.83/ft	\$9.96

Grand Total: \$2,063.99

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 DOCUMENT SPECIAL REQUIREMENTS

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/23/19 1:43 PM Dart.Guerin.Kimberley

MAY 24 2019

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB043527
Order Placed By
Kimberly Guerin

Page 1 of 2
05/23/2019

McMaster-Carr Number
4894170-02

Line	Product	Ordered	Shipped
1	52725A31 Tight-Clearance Ratcheting Bit Screwdriver for 1/4" Bit Hex Shank Size, 4-1/8" Overall Length	10 Each	10
2	8526A65 9/64" Hex Bit, 1/4" Hex Shank	10 Each	10
3	91257A749 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Size, 2-1/4" Long, Packs of 10	1 Pack	1
4	91257A758 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread, 5-1/2" Long, Partially Threaded, Packs of 1	10 Packs	10
5	92620A592 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 5/8"-18 Thread Size, 2-1/4" Long, Packs of 1	10 Packs	10
6	98029A033 Black-Oxide Steel Oversized Washer for 1/2" Screw, 0.531" ID, 1.125" OD, 0.105"- 0.13" Thickness, Packs of 25	1 Pack	1
7	91257A751 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Size, 3" Long, Partially Threaded, Packs of 5	1 Pack	1
8	90145A546 18-8 Stainless Steel Dowel Pin, 1/4" Diameter, 1-1/2" Long, Packs of 10	1 Pack	1
9	30125T403 Closed-Body Aluminum Turnbuckle-Not for Lifting, Hook-to-Hook, 90 lbs. Capacity, 5-1/2" Retracted Length	4 Each	4
10	3896T31 Wire Rope Compression Sleeve for 1/16" Rope Diameter - Not for Lifting, Packs of 50	2 Packs	2
11	90293A113 T-Handle Locking Quick-Release Pin with Ring, 17-4 PH Stainless Steel, 1/4" Diameter, 1-1/2" Usable Length	20 Each	20
12	90905A673 316 Stainless Steel Split Ring, 1-1/16" OD, Packs of 10	1 Pack	1
13	91611A104 Slotted Spring Pins, 1050-1095 Spring Steel, 2 mm Diameter, 10 mm Long, Packs of 200	1 Pack	1
14	91611A170 Slotted Spring Pins, 1050-1095 Spring Steel, 3 mm Diameter, 26 mm Long, Packs of 100	1 Pack	1
15	91732A726 18-8 Stainless Steel Helical Insert, 10-32 Right-Hand Thread, 0.475" Long, Packs of 10	1 Pack	1
16	92383A010 420 Stainless Steel Slotted Spring Pin, 1/8" Diameter, 1-5/8" Long, Packs of 50	1 Pack	1
17	92383A700 420 Stainless Steel Slotted Spring Pin, 1/8" Diameter, 1" Long, Packs of 100	1 Pack	1
18	9381T22 Open-End S-Hook-Not for Lifting, Zinc-Plated Steel, 10 lbs. Capacity, 1/4" Hook Opening Width, Packs of 25	1 Pack	1
19	97787A661 Expanding Diameter Quick-Release Pin, 1/4" Diameter, 1" Usable Length	8 Each	8

RECEIVED**Packing List**

MAY 24 2019

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB043527
Order Placed By
Kimberly Guerin

Page 2 of 2

05/23/2019

McMaster-Carr Number
4894170-02

Line	Product	Ordered	Shipped
20	98017A689 18-8 Stainless Steel Mil. Spec. Washer, Passivated, 5/16" Screw Size, NAS 1149-C0532R, Packs of 100	1 Pack	1
22	3088A412 Low-Carbon Steel Round Shim, 0.025" Thick, 1/2" ID, Packs of 10	2 Packs	2
23	91263A178 Zinc-Plated Alloy Steel Hex Drive Flat Head Screw, 1/4"-28 Thread Size, 1-1/4" Long, Packs of 25	2 Packs	2
25	6820A12 Heat-Shrink Tape for Composites, 3/4" Wide, 300 Feet Long	1 Each	1
26	3088A412 Low-Carbon Steel Round Shim, 0.025" Thick, 1/2" ID, Packs of 10	1 Pack	1
27	95606A470 Nylon Plastic Washer for 7/16" Screw Size, 0.5" ID, 0.688" OD, Off-White, Packs of 100	5 Packs	5
28	3009A237 Hardened Undersized High-Speed M2 Tool Steel Rod, 0.15" Diameter, 3" Long	4 Each	4